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A SINGLE CRYSTAL AND METHOD OF MANUFACTURING SAME

ABSTRACT OF THE DISCLOSURE

A method of manufacturing a single crystal, for example, an oxide single crystal, without using any seed crystal, includes the steps of preparing a raw material polycrystalline rod, and then using either the Floating Zone Method or the Laser Heated Pedestal Growth Method heating and melting the raw material polycrystalline rod to form a molten zone and then cooling and solidifying the molten zone successively in the length direction, wherein a fiber-shaped single crystal, which is 3 mm or smaller in diameter, grows in the direction normal to the densest surface.

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